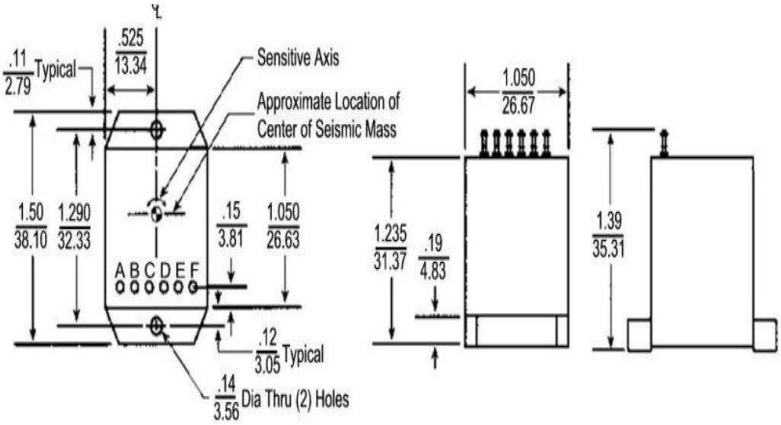
ASM Series Angular Accelerometer

Making Sense Out of Motion…

Input Ranges From ±200.0 to ±1,000 With Miniaturization, High Accuracy, and Ruggedness

Outline Drawing: *Dimensional Drawing for the ASM Accelerometer*

The Jewell **ASM Series** Angular Accelerometer are configured specifically to yield a combination of miniaturization, high accuracy, and ruggedness. The ASM Series has been designed to minimize thermal errors associated with outdoor applications. The Jewell ASM Series is the highest accuracy sensor of it's class in the world today.



Features & Benefits

- Bandwidth to 200 Hz
- 1.05" Cube Housing Size
- ± 15 Standard Input Voltage
- Aerospace Quality and Reliability

Applications

- Fatigue Monitoring
- Oil Well Drilling
- Flight Control Systems
- Automotive Angular Accelerometer Testing
- Antenna Stabilization
- Autopilot System Testing
- Optical System Stabilization
- Missile Orientation
- Fire Control

Pin A	**+12 +18 VDC**
Pin B	**Power/Signal Common**
Pin C	**-12 to -18 VDC**
Pin D	**Current Output**
Pin E	**E0 (V/Rad/Sec^2)**
Pin F	**Self-Test**

Jewell Instruments LLC, 850 Perimeter Road, Manchester, NH 03103
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ASM Series Specifications

PERFORMANCE

Input Range rad/sec²	± 200.0	± 500.0	± 1000.0
Full Range Output (FRO V± 1.0%)	± 5.0	± 5.0	± 5.0
Non Linearity (%FRO′ Max.)	0.5	0.2	0.1
Scale Factor, Vdc/rad/sec² Nominal	0.025	0.01	0.005
Scale Factor Temp. Sens, PPM /°C, Max.	180	180	180
Bias, rad/sec² Max.	±1.0	±4.0	±4.0
Bias, Temp. Sens, rad/sec²/°C Max.	0.40	0.40	0.40
Bandwidth. Hz (Nominal) (-3db)	70	100	120
Alignment (True Sens Axis to Mount), ° Max.	±1.0	±1.0	±1.0
Resolution and Threshold, rad/sec² Max.	0.004	0.010	0.020

ELECTRICAL

Input Voltage, (Vdc)	±15 to ±10
Input Current (mA, Nom.)	10
Output Impedance (Ohms, Nom.)	4000
Noise, Volts RMS Max.	0.005

ENVIRONMENTAL

Operating Temp Range	-55°C to +95°C
Survival Temp Range	-65°C to +105°C
Vibration	100 grms
Seal	MIL-STD-202, Method 112, IP 65
Weight, oz (grams)	2.0 (57)

How to Order

ASMP-200	02550279-001
ASMP-500	02550279-002
ASMP-1000	02550279-003

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